PTO/SB/05 (06-03) Approved for use through 04/30/2003. OMB 0651-0032

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ク ロ	UT	ILITY			Attorn	ey Docket No.	2003 P 5	64027 US				
PTO	PATENT A	PPLICA	TION		First II	nventor	Thwaite					
		SMITTAI			Title			n and Method for Refreshing a nic Memory Device				
	(Only for new nonprovisional a	applications und	ler 37 CFR	1.53(b))	Expre	ss Mail Label No.	EV 3969	01894 US	3	PT(
	APPLICATIO				ADD	RESS TO:			Patents pplication	7682		
_	See MPEP chapter 600 concern	•		ontents.	<u> </u>			Iria, VA 223		2 <u>1</u>		
1.	(Submit an original and a	orm (e.g., PTO/SB/17) nd a duplicate for fee processing) 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)						17.1				
2.	Applicant claims small See 37 CFR 1.27.	entity status.			Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)							
3.	X Specification	[Total Page	es 27	<u>'</u> 1		a. Compute	r Readable	Form (CI	RF)			
 (preferred arrangement set forth below) Descriptive title of the invention Cross Reference to Related Applications Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention 				 b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. paper c. Statements verifying identity of above copies 								
ĺ	 Brief Summary of the Brief Description of t 	e Invention the Drawings (if filed)			ACCOMPANYING APPLICATION PARTS						
 Detailed Description Claim(s) 				X Assignment Papers (cover sheet & document(s))								
- Abstract of the Disclosure					10.	10. 37 CFR 3.73(b) Statement (when there is an assignee) Power of Attorney						
4.	X Drawing(s) (35 U.S.C.	113) [Total S	heets	5]	11.	English Tran	slation Doo	cument (if	applicable)			
5.	5. Oath or Declaration [Total Sheets 3] 12. Information Disclosure Statement (IDS)/PTO-1449 Citations							į				
	a. X Newly executed (o	original or copy)		13.	Preliminary A	Amendmen	t				
b. Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s)				14. 15.	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)							
name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.												
6.	C Other								 			
	18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:											
	Continuation	Divisio	nal	Co	ntinuation-i		prior application	on No.:		_		
Prior application information: Examiner For CONTINUATION OF DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.												
						ADDRESS						
	X Customer Number			25	962		OR	Correspon	dence address belo	w		
Na	ame Slat	ter & Matsil, L.	L.P.									
٨	Internal	950 Preston Ro	1									
Cit	Juli	te 1000			State	Texas	Zin	Code	75252-5793			
_	ountry US/		Λ	Tele	ephone	972-732-1001	·		972-732-9218			
Na	rme (Print/type) Ira S	S. Matsil	X\.		Registr	ration No. (Attorney//	Agent)		35,272			
Sig	gnature		XX ()	+				Date	January 30	2004		

This collection of information is required by 37 CFR 1.5%(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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CCC TO A MOMITTAL			Complete if Known							
FEE TRANSMITTAL			Application Number Not As				gned			
				Filing Date			Herewith			
for FY 2003				First Named Inventor			Thwaite			
				er Name	,	TBD				
Effective 01/01/2003. Patent fees are subject to annual revision.						TBD				
Applicant Claims small entity status. See 37 CFR 1.27			AIL OIL			100				
TOTAL AMOUNT OF PAYMENT (\$) 950.00			Attorney Docket No. 2003 P			2003 P 540)27 US		_	
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)									
Check Credit card Money Other None	3. ADDITIONAL FEES									
X Deposit Account	Fee	Fee Fee	Fee	Fee Fee		Fee Do	escription		Fee Paid	
Deposit	Code 1051	(\$)	2051	(\$) 65	Surcha	rge – late filing	•	[1	
Account Number 50-1065	1031	100	2031	•	Julia	ige – late illing	ice of oath	į		
Deposit Account Name Slater & Matsil, L.L.P.	1052	50	2052	25	Surcha cover s	rge – late provi: sheet	or [
The Director is authorized to: (check all that apply)	1053	130	1053	130	Non-Er	glish specificat	Ì			
X Charge fee(s) indicated below X Credit any overpayments	1812	2,520	1812	2,520		g a request for	nination			
X Charge any additional fee(s) during the pendency of this application	1804	920*	1804	920*		sting publication	of SIR prior to			
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805	1,840*		sting publication er action	of SIR after			
FEE CALCULATION	1251	110	2251	55	Extensi	on for reply with	hin first month			
1. BASIC FILING FEE	1252	410	2252	205	Extensi	on for reply with	hin second mon	th		
Large Entity Small Entity	1253	930	2253	465	Extensi	on for reply with	hin third month			
Fee Fee Fee Fee Description Fee Paid	1254	1,450	2254	725	Extensi	on for reply with	hin fourth month	٠		
1001 750 2001 375 Utility filing fee 770.00	1255	1,970	2255	985		on for reply wit	hin fifth month			
1002 330 2002 165 Design filing fee	1401	320	2401	160		of Appeal				
1003 520 2003 260 Plant filing fee	1402 1403	320 280	2402	160 140		brief in suppor				
1004 750 2004 375 Reissue filing fee 1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510		st for oral hearir	ublic use proced	edina		
1000 100 2000 00 1 10Visional limity lee	1452	110	2452	55		to revive – una	•	,y		
SUBTOTAL (1) (\$) 770.00	1453	1,300	2453	650	Petition	to revive – uni	ntentional			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,300	2501	650	Utility is	ssue fee (or reis	ssue)			
Extra Claims below Fee Paid	1502	470	2502	235	Design	n issue fee				
Total Claims 23 -20**= 3 x 18 = 54.00 Independent 4 -3**= 1 x 86 = 86.00	1503 1460	630	2503	315		ssue fee				
Claims 4 - 3 - 1		130	1460	130		ns to the Commissioner				
Multiple Dependent	1807	50	1807	50	Proces	sing fee under (
Large Entity Small Entity Fee Fee	1806	180	1806	180			tion Disclosure		40.00	
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021 1809	40 750	2809	40 375	property	(times number	t assignment pe of properties) er final rejectior		40.00	
1201 84 2201 42 Independent claims in excess of 3	1810	750	2810	375	For eac	R § 1.129(a)) th additional inv				
1203 280 2203 140 Multiple dependent claim, if not paid	1801	750	2801	375		ed (37 CFR § 1 t for Continued E	. 129(b)) Examination (RC	E)		
1204 84 2204 42 **Reissue independent claims	1802	900	1802	900		t for expedited				
over original patent 1205 18 2205 9 **Reissue claims in excess of 20 and over original patent			1		or a de:	sign application	l			
SUBTOTAL (2) (\$) 140.00	Other	fee (spe	cify)							
** or number previously paid, if greater, For Reissues, see above					SUBTOT	BTOTAL (3) (\$) 40.00				
SUBMITTED BY		-					Complete (if a	applicable)		
Name (Print/Type) Ira S. Matsil		gistration		35,27	2		Telephone	972-73	2-1001	
	(At	torney/Ag	ent)	33,27	۲	-				
Signature							Date	January	30, 2004	

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Thwaite Docket No.: 2003 P 54027 US

Serial No.: Not Assigned Art Unit: TBD

Filed: Herewith Examiner: TBD

For: System and Method for Refreshing a Dynamic Memory Device

Certificate of Mailing via Express Mail

EXPRESS MAIL mailing label number: EV 396901894 US

Date of Deposit: January 30, 2004

I hereby certify that the following documents, which are enclosed, are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above in an envelope addressed to: Mail Stop: Patent Application, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450:

Certificate of Mailing via Express Mail (1 page)

Utility Patent Application Transmittal (1 page)

Fee Transmittal (1 original and 1 copy)

Complete Copy of Patent Application (32 pages), to include:

Specification (27 pages)

Formal Drawing Sheets (5 pages)

Declaration and Power of Attorney (3 pages)

Assignment Recordation Cover Sheet (1 page)

Copy of Original Signed Assignment (2 pages)

Two (2) Return Postcards

Respectfully submitted,

Julie Russell

Legal Assistant

Slater & Matsil, L.L.P. 17950 Preston Rd., Suite 1000 Dallas, Texas 75252-5793

Tel: 972-732-1001 Fax: 972-732-9218